ý



DB Name	Query	Hit Count	Set Name
USPT,JPAB,EPAB,DWPI,TDBD	Porter-linda-maree.in.	1	<u>L16</u>
USPT,JPAB,EPAB,DWPI,TDBD	Muddle-andrew-gordon.in.	2	<u>L15</u>
USPT,JPAB,EPAB,DWPI,TDBD	Sarphie-david-francis.in.	8	<u>L14</u>
USPT,JPAB,EPAB,DWPI,TDBD	Burkoth-terry-lee.in.	2	<u>L13</u>
USPT,JPAB,EPAB,DWPI,TDBD	L10 and (nanosphere or microsphere or particle)	54	<u>L12</u>
USPT,JPAB,EPAB,DWPI,TDBD	L10 and (lyophilized or (spray-dried))	27	<u>L11</u>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and (size or diameter or density or compact)	122	<u>L10</u>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and ((densified or compact) adj particle)	0	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and ((particulate pharmaceutical) adj composition)	0	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	L1 and (compacting and (size reducing))	0	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	L5 and ((0.1 to) adj (150))	0	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	L4 and (size and density)	37	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	L1 and L2	165	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	L1 and ((densified or compact) adj particles)	3	<u>L3</u> .
USPT,JPAB,EPAB,DWPI,TDBD	(transdermal delivery) or (needleless injection)	2834	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	(pharmaceutical preparation)	22775	<u>L1</u>

. ABSTRACT: cm2/s. The polydispersity and compaction of 30S subunits were observed under inactivation ionic conditions (30 mM NH4Cl at 1 mM MgCl2). The number of *compacted* *particles* correlates with the irreversible loss of biological activity, the ability of 30S subunits to bind specific tRNA.

```
13/3,K/9 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.
```

0002217737 BIOSIS NO.: 197764066094

SEDIMENTATION ON THE MEMBRANE SURFACE OF A HYPER FILTRATION WATER DISTILLING APPARATUS

AUTHOR: KHACHATURYAN A A; YUSHKEVICH E S; DZHAPAROV D JOURNAL: Problemy Osvoeniya Pustyn' (6): p69-72 1976

ISSN: 0032-9428

\$3.50

TELNET

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: Unspecified

...ABSTRACT: composite forces must be directed either off the membranes or tangent to their surfaces. The water flow in the chambers of the distillator must remove *compacted* *particles* from the cells and the pH of the solution under distillation must be corrected.

```
Set
        Items
               Description
          789
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S1
            DENSE)
S2
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            0
S3
                S1 AND ((HYDRAULIC OR TABLET OR ROTARY) (W) PRESS)
S4
                S1 AND (TRANSDERMAL OR TRANSMUCOSAL OR (NEEDLELESS (W) INJ-
            ECTION))
S5
           22
               S1 (S) (DNA OR RNA OR VECTOR OR (NUCLEIC (W) ACID))
                S5 NOT PY>1996
S6
           19
S7
           16
               RD (unique items)
S8
           0
                S1 AND (PARTICLE (W) DELIVERY)
S9
           3
               (POWDERED (W) DRUG (W) DELIVERY)
S10
                RD (unique items)
S11
                (TRANSDERMAL (W) DELIVERY) AND ((COMPACTED OR DENSIFIED) (-
            W) (PARTICLES OR DRUGS OR PARTICULATE))
S12
           13
                (COMPACTED OR DENSIFIED) (W) (PARTICLES OR DRUGS OR PARTIC-
            ULATE)
S13
            9
               RD (unique items)
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       09apr04 15:22:04 User259876 Session D609.2
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            $1.89 9 Types
     $5.83 Estimated cost File155
            $1.01 0.341 DialUnits File159
               $0.78 3 Type(s) in Format 3
            $0.78 3 Types
     $1.79 Estimated cost File159
            $6.86 1.224 DialUnits File5
              $15.75 9 Type(s) in Format 3
           $15.75 9 Types
    $22.61 Estimated cost File5
           $14.74
                   1.504 DialUnits File73
              $13.50 5 Type(s) in Format 3
           $13.50 5 Types
           Estimated cost File73
           OneSearch, 4 files, 4.301 DialUnits FileOS
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Status: Signed Off. (14 minutes)

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?s s1 and (non-metal (w) carrier)
           2096 S1
              1 NON-METAL
         177578
                 CARRIER
                NON-METAL (W) CARRIER
              0
              0 S1 AND (NON-METAL (W) CARRIER)
     S9
?s sl and (without (w) metal (w) carrier)
           2096 S1
        1456617 WITHOUT
         176819 METAL
          177578 CARRIER
              0 WITHOUT (W) METAL (W) CARRIER
               O S1 AND (WITHOUT (W) METAL (W) CARRIER)
     S10
?ds
               Description
        Items
Set
               (TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
         2096
s1
               S1 AND (DENSE (W) PARTICLE)
S2
               S1 AND (DENSE OR COMPACT OR CONDENSED)
           11
s3
               RD (unique items)
           6
S4
               S1 AND (DNA OR VECTOR OR (NUCLEIC (W) ACID))
           65
S5
               S5 AND (MILLING OR SIEVING OR COMPACT OR DENSIFIED)
            0
S6
               S5 AND REVIEW
            2
s7
               RD (unique items)
            2
S8
               S1 AND (NON-METAL (W) CARRIER)
            0
S9
              S1 AND (WITHOUT (W) METAL (W) CARRIER)
            0
S10
?logoff
       02sep01 11:35:45 User259876 Session D257.2
            $1.78 0.558 DialUnits File155
               $0.60 3 Type(s) in Format 3
            $0.60 3 Types
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            $2.40 0.428 DialUnits File5
               $4.95 3 Type(s) in Format 3
            $4.95 3 Types
     $7.35 Estimated cost File5
                  0.726 DialUnits File73
            $6.17
               $4.70 2 Type(s) in Format 3
            $4.70 2 Types
            Estimated cost File73
    $10.87
            OneSearch, 3 files, 1.711 DialUnits FileOS
     $0.70 TYMNET
    $21.30 Estimated cost this search
    $21.59 Estimated total session cost 1.789 DialUnits
```

Status: Signed Off. (15 minutes)

Status: Path 1 of [Dialog Information Services via Modem] ### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog) Trying 3106900061...Open DIALOG INFORMATION SERVICES PLEASE LOGON: ****** HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog **** ENTER PASSWORD: ****** HHHHHHHH SSSSSSS? ****** Welcome to DIALOG ### Status: Connected Dialog level 01.08.22D Last logoff: 31aug01 09:41:00 Logon file001 02sep01 11:21:27 *** ANNOUNCEMENT *** *** --Important Notice to Freelance Authors--See HELP FREELANCE for more information NEW FILE RELEASED ***EIU Business Magazines (File 622) ***IBISWorld Market Research (File 753) ***Investext PDF Index (File 745) ***Daily and Sunday Telegraph (London) Papers (File 756) ***The Mirror Group Publications (United Kingdom) (File 757) UPDATING RESUMED ***Delphes European Business (File 481) ***Books In Print (File 470) RELOADED ***Kompass Middle East/Africa/Mediterranean (File 585) ***Kompass Asia/Pacific (File 592) ***Kompass Central/Eastern Europe (File 593) ***Kompass Canada (File 594) ***CANCERLIT (File 159) ***Information Science Abstracts (File 202) ***New document supplier*** IMED has been changed to INFOTRIE (see HELP OINFOTRI) >>>Get immediate news with Dialog's First Release news service. First Release updates major newswire databases within 15 minutes of transmission over the wire. First Release provides full Dialog searchability and full-text features. To search First Release files in OneSearch simply BEGIN FIRST for coverage from Dialog's broad spectrum of news wires. >>> Enter BEGIN HOMEBASE for Dialog Announcements <<< of new databases, price changes, etc. **** KWIC is set to 50. HILIGHT set on as '*' 1:ERIC 1966-2001/Aug 17 File

(c) format only 2001 The Dialog Corporation

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Set Items Descrip
?b 155, 5, 73
      02sep01 11:21:50 User259876 Session D257.1
                  0.078 DialUnits Filel
           $0.27
    $0.27 Estimated cost File1
    $0.02 TYMNET
    $0.29 Estimated cost this search
    $0.29 Estimated total session cost 0.078 DialUnits
SYSTEM:OS - DIALOG OneSearch
  File 155:MEDLINE(R) 1966-2001/Sep W4
        5:Biosis Previews(R) 1969-2001/Aug W4
  File
         (c) 2001 BIOSIS
       73:EMBASE 1974-2001/Aug W4
  File
         (c) 2001 Elsevier Science B.V.
*File 73: For information about Explode feature please
see Help News73.
      Set Items Description
?s (transdermal (w) delivery) or (particle (w) delivery)
          15669 TRANSDERMAL
          313147 DELIVERY
           1980 TRANSDERMAL(W) DELIVERY
          119688 PARTICLE
          313147 DELIVERY
             116 PARTICLE(W) DELIVERY
            2096 (TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
?s s1 same (compact or densified or condensed)
>>>Term "SAME" in invalid position
?s s1 and (dense (w) particle)
            2096 S1
          104450 DENSE
          119688 PARTICLE
              88 DENSE (W) PARTICLE
               0 S1 AND (DENSE (W) PARTICLE)
?s s1 and (dense or compact or condensed)
            2096 S1
          104450 DENSE
           29095 COMPACT
           19643 CONDENSED
              11 S1 AND (DENSE OR COMPACT OR CONDENSED)
      S3
?rd
...completed examining records
              6 RD (unique items)
?t s4/3, k/all
            (Item 1 from file: 155)
 4/3,K/1
DIALOG(R) File 155: MEDLINE(R)
          99401139 PMID: 10469904
10812482
  Optimization of a vehicle mixture for the *transdermal* *delivery* of
melatonin using artificial neural networks and response surface method.
  Kandimalla KK; Kanikkannan N; Singh M
  College of Pharmacy and Pharmaceutical Sciences, Florida A&M University,
Tallahassee, FL 32307-3800, USA.
  Journal of controlled release (NETHERLANDS) Aug 27 1999, 61 (1-2)
 p71-82, ISSN 0168-3659 Journal Code: C46
  Contract/Grant No.: G12RR03020-13, RR, NCRR
  Languages: ENGLISH
  Document type: Journal Article
  Record type: Completed
  Optimization of a vehicle mixture for the *transdermal* *delivery* of
```

melatonin using artificial neural networks and response surface method.

The objective of this study was to optimize a suitable vehicle composition, using response surface method (RSM) and artificial neural networks (ANN), for the *transdermal* *delivery* of melatonin (MT). MT is a hormone produced by the pineal gland that influences mammalian sleep and reproductive patterns. A successful treatment for sleep disorders...

maintain steady-state plasma ... first-pass metabolism, and concentrations for a required period of time. However, MT by itself can not pass through the *dense* lipophilic matrix of stratum corneum. Hence solvents like water (W), ethanol (E), propylene glycol (P), their binary and ternary mixtures were employed to increase MT...

(Item 2 from file: 155) 4/3,K/2 DIALOG(R) File 155: MEDLINE(R)

10769055 98392114 PMID: 9724902

Proniosome based *transdermal* *delivery* of levonorgestrel for effective contraception.

Vora B; Khopade AJ; Jain NK

Department of Pharmaceutical Sciences, Dr. Harisingh Gour University, Sagar, India.

Jul 31 1998, 54 Journal of controlled release (NETHERLANDS) p149-65, ISSN 0168-3659 Journal Code: C46

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Proniosome based *transdermal* *delivery* of levonorgestrel for effective contraception.

... based transdermal drug delivery system of levonorgestrel (LN) was developed and extensively characterized both in vitro and in vivo. The proniosomal structure was liquid crystalline-*compact* niosomes hybrid which could be converted into niosomes upon hydration. The system was evaluated in vitro for drug loading, rate of hydration (spontaneity), vesicle size...

(Item 3 from file: 155) 4/3,K/3 DIALOG(R) File 155:MEDLINE(R)

93028112 PMID: 1409375 07652525

Sonophoresis. II. Examination of the mechanism(s) of ultrasound-enhanced transdermal drug delivery.

Bommannan D; Menon GK; Okuyama H; Elias PM; Guy RH

Graduate Group in Bioengineering, University of California, Berkeley. Pharmaceutical research (UNITED STATES) Aug 1992, 9 (8) p1043-7,

ISSN 0724-8741 Journal Code: PHS

Contract/Grant No.: AR-19098, AR, NIAMS; HD-23010, HD, NICHD

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

We have shown previously that high-frequency ultrasound (sonophoresis) can significantly enhance the *transdermal* *delivery* of a topically applied drug in vivo and that the augmentation of transport was caused by the action of the ultrasound on the skin. However...

... structure and morphology. In the study reported here, these three key issues have been addressed using electron microscopy to follow the penetration of an electron-*dense*, colloidal tracer (lanthanum hydroxide; LH). Experiments have again been performed using the hairless guinea pig animal model. Colloidal LH suspensions were applied to skin sites ...

DIALOG(R) File 5: Biosis eviews (R) (c) 2001 BIOSIS. All rts. reserv.

12369509 BIOSIS NO.: 200000123011

Transient gene expression in pine pollen tubes following particle bombardment.

AUTHOR: Fernando D D(a); Owens J N; Misra S

AUTHOR ADDRESS: (a) Department of Environmental and Forest Biology, State University of New York, 1 Forestry Drive, Syracuse, NY, 13210**USA

JOURNAL: Plant Cell Reports 19 (3):p224-228 Jan., 1999

ISSN: 0721-7714

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: A biolistic *particle* *delivery* system was used to genetically transform pollen tubes of three species of white pine (Pinus aristata, P. griffithii and P. monticola). The introduced plasmid DNA...

...conifers was examined. Gene expression in pollen tubes was also examined under electron microscopy where the X-glu reaction product occurred as large crystalline electron-*dense* precipitates in the cytoplasm.

4/3,K/5 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

10793238 BIOSIS NO.: 199799414383

Characterization of collagen isolation and application of collagen gel as a drug carrier.

AUTHOR: Ho Hsiu-O; Lin Lun-Huei; Sheu Ming-Thau

AUTHOR ADDRESS: Graduate Inst. Pharmaceutical Sci., Taipei Med. Coll.,

Taipei**Taiwan

JOURNAL: Journal of Controlled Release 44 (2-3):p103-112 1997

ISSN: 0168-3659

RECORD TYPE: Abstract LANGUAGE: English

...ABSTRACT: was favorable for the digestion of porcine skin. The morphological characteristics observed by scanning electron microscopy (SEM) showed that fibril collagen, porous fibril membrane or *dense* membrane were all possibly formed depending on the digestion and freeze-drying media. Analysis by sodium dodecyl sulphate-polyacrylamide gel electrophoresis (SDS-PAGE) and size...

...by gelling the vehicle mixture of citric acid solution, ethanol and propylene glycol with 1% w/w of such a collagen sample was suitable for *transdermal* *delivery*.

MISCELLANEOUS TERMS: ...*DENSE* MEMBRANE

4/3,K/6 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2001 BIOSIS. All rts. reserv.

08381630 BIOSIS NO.: 000094112134

SONOPHORESIS II. EXAMINATION OF THE MECHANISMS OF ULTRASOUND-ENHANCED TRANSDERMAL DRUG DELIVERY

AUTHOR: BOMMANNAN D; MENON G K; OKUYAMA K; ELIAS P M; GUY R H AUTHOR ADDRESS: DEP. PHARMACY PHARMACEUTICAL CHEM., UNIVERSITY CALIFORNIA, SAN FRANCISCO, CALIF. 94143.

JOURNAL: PHARM RES (N Y) 9 (8). 1992. 1043-1047. 1992 FULL JOURNAL NAME: Pharmaceutical Research (New York)

CODEN: PHREE

RECORD TYPE: Abstract LANGUAGE: ENGLISH

LANGUAGE: ENGLISH ABSTRACT: We have shown previously that high-frequency ultrasound (sonophoresis) can significantly enhance the *transdermal* *delivery* of a topically applied drug in vivo and that the augmentation of transport was caused by the action of the ultrasound on the skin. However... ...structure and morphology. In the study reported here, these three key issues have been addressed using electron microscopy to follow the penetration of an electron-*dense*, colloidal tracer (lanthanum hydroxide; LH). Experiments have again been performed using the hairless quinea pig animal model. Colloidal LH suspensions were applied to skin sites... ?ds Description Items Set (TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY) 2096 S1 S1 AND (DENSE (W) PARTICLE) Ω S2 S1 AND (DENSE OR COMPACT OR CONDENSED) 11 s3 RD (unique items) S4 6 ?s s1 and (DNA or vector or (nucleic (w) acid)) 2096 S1 1650096 DNA 172398 VECTOR 208095 NUCLEIC 3060226 ACID 182950 NUCLEIC(W)ACID 65 S1 AND (DNA OR VECTOR OR (NUCLEIC (W) ACID)) S5 ?s s5 and (milling or sieving or compact or densified) 65 S5 5212 MILLING 6040 SIEVING 29095 COMPACT 119 DENSIFIED O S5 AND (MILLING OR SIEVING OR COMPACT OR DENSIFIED) S6 ?s s5 and review 65 S5 1165553 REVIEW 2 S5 AND REVIEW ?rd ...completed examining records 2 RD (unique items) S8 ?t s8/3, k/all(Item 1 from file: 73) 8/3,K/1 DIALOG(R) File 73: EMBASE (c) 2001 Elsevier Science B.V. All rts. reserv. EMBASE No: 2001260792 Drug and gene delivery using electrotransfer SEANCE THEMATIQUE ADMINISTRATION DE MEDICAMENTS ET DE GENES PAR ELECTROTRANSFERT Preat V. V. Preat, Universite Cathol. de Louvain, Unite de pharmacie Galenique, Avenue Mounier, 73 UCL 7320, B 1200 Bruxelles Belgium Annales Pharmaceutiques Françaises (ANN. PHARM. FR.) (France) 2001, 59/4 (239-244) ISSN: 0003-4509 CODEN: APFRA DOCUMENT TYPE: Journal ; Review LANGUAGE: FRENCH SUMMARY LANGUAGE: ENGLISH; FRENCH NUMBER OF REFERENCES: 20

...and high voltage pulses (electroporation which permeabilizes lipid bilayers) has a potential for the administration of conventional and biotechnology-produced drugs. Iontophoresis and electroporation enhance

```
Electrochemotherapy, i.e., combination of a systemic or local delivery of a
non-permeant cytostatic drug with electroporation, kills...
DRUG DESCRIPTORS:
bleomycin--drug administration--ad; bleomycin--drug therapy--dt; bleomycin
--intratumoral drug administration--tu; *DNA*
MEDICAL DESCRIPTORS:
lipid bilayer; biotechnology; genetic transfection; plasmid; drug delivery
system; melanoma--drug therapy--dt; basal cell carcinoma--drug therapy--dt;
human; *review*
CAS REGISTRY NO.: 11056-06-7 (bleomycin); 9007-49-2 (*DNA*)
             (Item 2 from file: 73)
 8/3.K/2
DIALOG(R) File 73: EMBASE
(c) 2001 Elsevier Science B.V. All rts. reserv.
             EMBASE No: 2000108048
10642916
 Cutaneous vaccination: The skin as an immunologically active tissue and
the challenge of antigen delivery
  Babiuk S.; Baca-Estrada M.; Babiuk L.A.; Ewen C.; Foldvari M.
  M. Foldvari, College of Pharmacy/Nutrition, University of Saskatchewan,
  110 Science Place, Saskatoon, Sask. S7N 5C9 Canada
  AUTHOR EMAIL: foldvari@duke.usask.ca
  Journal of Controlled Release ( J. CONTROL. RELEASE ) (Netherlands) 15
  MAY 2000, 66/2-3 (199-214)
  CODEN: JCREE ISSN: 0168-3659
  PUBLISHER ITEM IDENTIFIER: S0168365999002746
  DOCUMENT TYPE: Journal; Review
                      SUMMARY LANGUAGE: ENGLISH
  LANGUAGE: ENGLISH
  NUMBER OF REFERENCES: 136
  ...by intramuscular administration. Unfortunately this is often
traumatic, especially in infants. Thus, if it was possible to replace
intramuscular immunization by mucosal (oral/intranasal) or *transdermal*
*delivery* it may be possible to both enhance mucosal immunity as well as
improve overall compliance rates. The transdermal route has been used by
the pharmaceutical...
...vaccines. However, there is a greater challenge to delivering large
molecular weight molecules through the skin due to size, charge and other
physicochemical properties. This *review* will describe the recent advances
that have been made in dermal and topical delivery as related to vaccines.
Copyright (C) 2000.
DRUG DESCRIPTORS:
antigen--pharmaceutics--pr; antigen--drug administration--ad; virus vaccine
--pharmaceutics--pr; virus vaccine--drug administration--ad; liposome
--pharmaceutics--pr; *DNA* vaccine--pharmaceutics--pr; *DNA* vaccine--drug
administration--ad; polymer--pharmaceutics--pr; polylactic acid
--pharmaceutics--pr; polyglactin--pharmaceutics--pr; polycation
--pharmaceutics--pr; plasmid *DNA*--pharmaceutics--pr; plasmid *DNA*--drug
administration--ad
MEDICAL DESCRIPTORS:
drug delivery system; molecular weight; poliomyelitis; measles; immune
response; confocal microscopy; Langerhans cell; technique;
microencapsulation; human; nonhuman; *review*; priority journal
?ds
                Description
Set
        Items
                (TRANSDERMAL (W) DELIVERY) OR (PARTICLE (W) DELIVERY)
         2096
S1
               S1 AND (DENSE (W) PARTICLE)
 S2
            0
                S1 AND (DENSE OR COMPACT OR CONDENSED)
 s3
           11
               RD (unique items)
 S4
                S1 AND (DNA OR VECTOR OR (NUCLEIC (W) ACID))
           65
 S5
                S5 AND (MILLING OR SIEVING OR COMPACT OR DENSIFIED)
            0
 S6
            2
                S5 AND REVIEW
 s7
```

drugs, including peptides and

transdermal *delivery*

S8

RD (unique items)

gonucleotides.

compound--ec; polymer MEDICAL DESCRIPTORS: article; *biolistic* transformation; cell transformation; environmental **gene* expression factor; genome; immunoblotting; plant cell

(Item 10 from file: 73) 18/3,K/76 DIALOG(R) File 73: EMBASE (c) 2000 Elsevier Science B.V. All rts. reserv.

EMBASE No: 1996005007

Particle bombardment drastically increases the infectivity of cloned *DNA* of zucchini yellow mosaic potyvirus

Gal-On A.; Meiri E.; Huet H.; Hua W.J.; Raccah B.; Gaba V.

Department of Virology, Agricultural Research Organization, Volcani

Center, PO Box 6, Bet Dagan 50-250 Israel

Journal of General Virology (J. GEN. VIROL.) (United Kingdom)

76/12 (3223-3227)

ISSN: 0022-1317 CODEN: JGVIA DOCUMENT TYPE: Journal; Article

SUMMARY LANGUAGE: ENGLISH LANGUAGE: ENGLISH

Particle bombardment drastically increases the infectivity of cloned *DNA* of zucchini yellow mosaic potyvirus

An infectious full-length cDNA clone of the *RNA* genome of the potyvirus zucchini yellow mosaic virus (ZYMV) was constructed under the control of the cauliflower mosaic virus 35S promoter. All squash, cucumber, melon and watermelon plants inoculated with the cloned cDNA of ZYMV by *particle* bombardment become infected. Bombardment technology is 10sup 6-fold more effective than mechanical inoculation. Due to the great increase in efficiency, ineffective constructs now became...

...an addition of 127 nucleotides at the 5' end of the viral cDNA; uncapped transcripts), and the infectivity of capped-transcripts was maximized. Inoculation by *particle* bombardment produced visual symptoms rapidly (3-4 days), allowing the detection of viral coat protein and virions after 2 and 3 days in systemically infected...

DRUG DESCRIPTORS:

coat protein--endogenous compound--ec; complementary *dna* MEDICAL DESCRIPTORS:

**biolistic* transformation; *mosaic virus; *virus infectivity ?ds

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Description
        Items
Set
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S1
                (TRANSDERMAL (W) DELIVERY)
         1830
S2
                (NEEDLELESS (W) INJECTION) OR (BIOLISTIC)
s3
          732
                S2 AND S3
            0
S4
                S2 AND (DENSIFIED (W) PARTICLE?)
            n
S5
                S2 AND (COMPACT (W) PARTICLE?)
            0
S6
                S3 AND (COMPACT (W) PARTICLE?)
            0
s7
                (S2 OR S3) AND (PARTICLE?)
          254
S8
                S8 AND (COMPACT OR SIZE)
           39
S9
                RD (unique items)
           24
S10
                S10 NOT PY>1996
           10
S11
                S8 NOT PY>1996
          128
S12
                RD (unique items)
           92
S13
                S13 AND (LYOPHILIZED OR (SPRAYED (W) DRIED))
            0
S14
                S13 AND (FREEZED-DRIED)
            0
S15
                S13 AND (MILLING OR SIEVING)
            0
S16
                S13 AND (PEPTIDE OR PROTEIN)
           14
S17
                $13 AND (DNA OR RNA OR GENE)
           76
S18
                S18 AND (DIAMETER OR DENSITY)
            6
S19
                S18 AND (PHARMACEUTICAL (W) COMPOSITION)
            0
S20
```

?logoff 08dec00 17:48:41 User259876 Session D162.2 \$4.70 1.468 DialUnits File155 \$5.80 29 Type(s) in Format 3 \$5.80 29 Types \$10.50 Estimated cost File155 \$13.15 2.349 DialUnits File5 \$99.00 60 Type(s) in Format 3 \$99.00 60 Types \$112.15 Estimated cost File5 \$11.73 1.380 DialUnits File73 \$39.95 17 Type(s) in Format 3 \$39.95 17 Types \$51.68 Estimated cost File73 OneSearch, 3 files, 5.197 DialUnits FileOS \$1.55 TYMNET \$175.88 Estimated cost this search \$176.30 Estimated total session cost 5.315 DialUnits

Status: Signed Off. (32 minutes)